0370

#7



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/903,188A

DATE: 03/28/2002
TIME: 10:16:18

Input Set : N:\Crf3\Refhold\I903188.raw
Output Set: N:\CRF3\03282002\I903188A.raw

```
1 <110> APPLICANT: De Robertis, Edward M.
          Bouwmeester, Tewis
  3 <120> TITLE OF INVENTION: Endoderm, Cardiac and Neural Inducing
          Factors
  5 <130> FILE REFERENCE: 510015-258
  6 <140> CURRENT APPLICATION NUMBER: US/09/903,188A
  7 <141> CURRENT FILING DATE: 2001-07-11
  8 <150> PRIOR APPLICATION NUMBER: US 60/020,150
 9 <151> PRIOR FILING DATE: 1996-06-20
                                                                ENTERED
 10 <160> NUMBER OF SEQ ID NOS: 10
11 <170> SOFTWARE: FastSEQ for Windows Version 3.0
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 270
15 <212> TYPE: PRT
16 <213> ORGANISM: Xenopus
17 <400> SEQUENCE: 1
18
          Met Leu Asn Val Leu Arg Ile Cys Ile Ile Val Cys Leu Val Asn
19
          Asp Gly Ala Gly Lys His Ser Glu Gly Arg Glu Arg Thr Lys Thr Tyr
20
21
                                           25
          Ser Leu Asn Ser Arg Gly Tyr Phe Arg Lys Glu Arg Gly Ala Arg Arg
22
23
                                       40
          Ser Lys Ile Leu Leu Val Asn Thr Lys Gly Leu Asp Glu Pro His Ile
24
25
          Gly His Gly Asp Phe Gly Leu Val Ala Glu Leu Phe Asp Ser Thr Arg
26
27
          Thr His Thr Asn Arg Lys Glu Pro Asp Met Asn Lys Val Lys Leu Phe
28
29
                                              90
          Ser Thr Val Ala His Gly Asn Lys Ser Ala Arg Arg Lys Ala Tyr Asn
30
31
                      100
                                          105
          Gly Ser Arg Arg Asn Ile Phe Ser Arg Arg Ser Phe Asp Lys Arg Asn
32
33
                                      120
                                                          125
          Thr Glu Val Thr Glu Lys Pro Gly Ala Lys Met Phe Trp Asn Asn Phe
34
35
         Leu Val Lys Met Asn Gly Ala Pro Gln Asn Thr Ser His Gly Ser Lys
36
37
                              150
                                                  155
         Ala Gln Glu Ile Met Lys Glu Ala Cys Lys Thr Leu Pro Phe Thr Gln
38
39
                                              170
40
         Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu
41
                                          185
         Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg
42
43
                                      200
44
         Arg Asn Thr Cys Ser His Cys Leu Pro Ser Lys Phe Thr Leu Asn His
```

RAW SEQUENCE LISTING

DATE: 03/28/2002 PATENT APPLICATION: US/09/903,188A TIME: 10:16:18

Input Set : N:\Crf3\Refhold\I903188.raw Output Set: N:\CRF3\03282002\1903188A.raw

```
45
               210
                                   215
                                                       220
 46
           Leu Thr Leu Asn Cys Thr Gly Ser Lys Asn Val Val Lys Val Val Met
 47
           225
                               230
                                                   235
           Met Val Glu Glu Cys Thr Cys Glu Ala His Lys Ser Asn Phe His Gln
 48
 49
                           245
                                               250
 50
           Thr Ala Gln Phe Asn Met Asp Thr Ser Thr Thr Leu His His
 51
                       260
                                           265
 53 <210> SEQ ID NO: 2
 54 <211> LENGTH: 1338
 55 <212> TYPE: DNA
 56 <213> ORGANISM: Xenopus
 57 <400> SEQUENCE: 2
           gaatteecag caagtegete agaaacaetg cagggtetag atateataca atgttaetaa
 58
                                                                                  60
 59
           atgtactcag gatctgtatt atcgtctgcc ttgtgaatga tggagcagga aaacactcag
                                                                                 120
 60
           180
 61
           gaggagcacg taggagcaag attetgetgg tgaatactaa aggtettgat gaaccccaca
                                                                                 240
          ttgggcatgg tgattttcgc ttagtagctg aactatttga ttccaccaga acacatacaa
 62
                                                                                 300
          acagaaaaga gccagacatg aacaaagtca agcttttctc aacagttgcc catggaaaca
 63
                                                                                 360
          aaagtgcaag aagaaaagct tacaatggtt ctagaaggaa tattttcct cgccgttctt
 64
                                                                                 420
          ttgataaaag aaatacagag gttactgaaa agcctggtgc caagatgttc tggaacaatt
 65
                                                                                 480
          ttttggttaa aatgaatgga gccccacaga atacaagcca tggcagtaaa gcacaggaaa
 66
                                                                                 540
67
          taatgaaaga agcttgcaaa accttgtttt tcactcagaa tattgtacat gaaaactgtg
                                                                                 600
          acaggatggt gatacagaac aatctgtgct ttggtaaatg catctctctc catgttccaa
68
                                                                                 660
          atcagcaaga tcgacgaaat acttgttccc attgcttgcc gtccaaattt accctgaacc
69
                                                                                720
          acctgacgct gaattgtact ggatctaaga atgtagtaaa ggttgtcatg atggtagagg
70
                                                                                780
71
          aatgcacgtg tgaagctcat aagagcaact tccaccaaac tgcacagttt aacatggata
                                                                                840
          catctactac cctgcaccat taaaggactg ccatacagta tggaaatgcc cttttgttgg
72
                                                                                900
73
          aatatttgtt acatactatg catctaaagc attatgttgc cttctatttc atataaccac
                                                                                960
          atggaataag gattgtatga attataatta acaaatggca ttttgtgtaa catgcaagat
74
                                                                               1020
          ctctgttcca tcagttgcaa gataaaaggc aatatttgtt tgacttttt tctacaaaat
75
                                                                               1080
76
          gaatacccaa atatatgata agataatggg gtcaaaactg ttaaggggta atgtaataat
                                                                               1140
77
          agggactaag tttgcccagg agcagtgacc cataacaacc aatcagcagg tatgatttac
          tggtcacctg tttaaaagca aacatcttat tggttgctat gggttactgc ttctgggcaa
                                                                               1200
78
          aatgtgtgcc tcataggggg gttagtgtt tgtgtactga ataaattgta tttatttcat
                                                                               1260
79
                                                                               1320
80
          tgttacaaaa aaaaaaaa
                                                                               1338
82 <210> SEQ ID NO: 3
83 <211> LENGTH: 318
84 <212> TYPE: PRT
85 <213> ORGANISM: Xenopus frazzled
86 <400> SEQUENCE: 3
87
         Met Ser Arg Thr Arg Lys Val Asp Ser Leu Leu Leu Leu Ala Ile Pro
88
                                              10
         Gly Leu Ala Leu Leu Leu Pro Asn Ala Tyr Cys Ala Ser Cys Glu
89
90
                      20
                                          25
91
         Pro Val Arg Ile Pro Met Cys Lys Ser Met Pro Trp Asn Met Thr Lys
92
         Met Pro Asn His Leu His His Ser Thr Gln Ala Asn Ala Ile Leu Ala
93
94
             50
         Ile Glu Gln Phe Glu Gly Leu Leu Thr Thr Glu Cys Ser Gln Asp Leu
95
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/903,188A

DATE: 03/28/2002 TIME: 10:16:18

Input Set : N:\Crf3\Refhold\I903188.raw
Output Set: N:\CRF3\03282002\I903188A.raw

96		<b>6 5</b>																
97		65	-1	_,	_		70					75					80	
98		ьeu	Pne	Phe	Leu	Cys	Ala	Met	Tyr	Ala	Pro	Ile	Cys	Thr	Ile	Asp	Phe	
99						83					90					0 E		
100		GIN	HIS	Glu	Pro	Ile	Lys	Pro	Cys	Lys	Ser	Val	Cys	Glu	Arq	Ala	Arq	
					100	,				105	)				110	1		
101		Ala	ı Gıy	Cys	Glu	Pro	) Ile	Let	ı Ile	Lys	Tyr	Arg	His	Thr	Trp	Pro	Glu	
102				TTO					120					125	:			
103		Ser	. Leu	Ala	Cys	Glu	ı Glu	Leu	Pro	Val	Tyr	Asp	Arg	Gly	. Val	. Cvs	: Ile	
104			100					133	)				1 // 0					
105		Ser	Pro	Glu	Ala	Ile	· Val	Thr	Val	Glu	Gln	Gly	Thr	Asp	Ser	Met	Pro	
106		143					T20	l				155					1.00	
107		Asp	Phe	Ser	Met	Asp	Ser	Asn	Asn	Gly	Asn	Cys	Gly	Ser	Glv	Ara	Glu	
108						TOO					170					175		
109		His	Cys	Lys	Cys	Lys	Pro	Met	Lys	Ala	Thr	Gln	Lvs	Thr	Tvr	Len	Lys	
110					700					185					100			
111		Asn	Asn	Tyr	Asn	Tyr	Val	Ile	Arg	Ala	Lys	Val	Lvs	G1u	Val	Lve	Val	
112				エフン					200					205				
113		Lys	Cys	His	Asp	Ala	Thr	Ala	Ile	Val	Glu	Val	Lvs	Glu	Tle	T.e.ii	Lys	
114			210					∠±>					220					
115		Ser	Ser	Leu	Val	Asn	Ile	Pro	Lys	Asp	Thr	Val	Thr	Leu	Tvr	Thr	Asn	
116							230					235					240	
117		Ser	Gly	Cys	Leu	Cys	Pro	Gln	Leu	Val	Ala	Asn	Glu	Glii	Tvr	T۱۵	T16	
118						440					250					255		
119		Met	Gly	Tyr	Glu	Asp	Lys	Glu	Arg	Thr	Arq	Leu	Leu	Leu	Va 1	Glu	Glv	
120					200					265					270			
121		Ser	Leu	Ala	Glu	Lys	Trp	Arg	Asp	Arg	Leu	Ala	Lvs	Lvs	Val	T.yz	Δrα	
122				2/3					280					285				
123		$\mathtt{Trp}$	Asp	Gln	Lys	Leu	Arg	Arg	Pro	Arg	Lys	Ser	Lvs	Asp	Pro	Va 1	Δla	
124			290					295					300				mu	
125		Pro	Ile	Pro	Asn	Lys	Asn	Ser	Asn	Ser	Arq	Gln	Ala	Arσ	Ser			
126	.010	303					310				_	315		5				
128	<210>	SEQ I	D NC	: 4														
		LENGI																
		TYPE:																
131	<213>	ORGAN	ISM:	Xen	opus	fra	zzle	d										
	<400>	SEQUE																
133		gaat	tccc	tt t	caca	cagg	a ct	.cctg	gcag	agg	tgaa	tgg	ttag	ccct	at q	gatt	tggtt	60
134		-9	gucc	LL y	acac	auya	LLQ	atto	CLLL	caq	ataα	rat –	+~==	$\alpha \alpha > \alpha$	++ ~			
135		- cuu		go a	しししし	Laaa	L La	L.C.T.C	аста	att	atta	att	++~+	~++~	~~ +		4	
136 137		Jucu	uucc	ca a		LLYC	L L L	Lyac	ttac	cca	taaa	cta ·	taan	a+aa	~~ +	~~~+		
137		9-		uc u	-4	ucca	u al	LLTC	сста	tat:	taca	+~+	2++6	+-				
138		acac	u cuc	ay y	44	ycay	a at	aaca	a r.ar	CTC	നമരവ	aar i	m = = = .	~+~~	~~ +		•	
140			9900	ac. at	July	gacı.	y yc	<b>GCTT</b>	CECE	tat:	tacci	caa ·	+~~+	+ > < +	~+ ~			
140 $141$			-9 -9	-y y	エレいい	Jual	u Lu	caaa	ССТА	Tac	rata.	maa /	~ a + ~ ·		~ ~			
141		4000	ccuci	Ju Co	ay ca	Julia	a uc	caat	occa.	TCC.	וממכי	aat t		aa a+.				
142		- Guc	باعتد	ga ai	-y cay	Juca	y ya	CCLL	ctat.	tett	トナヘナイ	ፕተα 1	taaa:	3 + ~ + ·	a+ ~.			
		5 cac.	بصدر	gu ci		ayca.	L yai	acca	атта	aacc	マナナベイ	raa 1	マナヘヘィ	*+~+	~~ ~.			
144		フララン	-990	-y -u	jaycu	Jual	L CE	сата	aaar	2000	TOCA	ran t	-+~~					
145		gtgaa	agago	ct go	ccgt	ata	t gad	caga	ggag	tct	gcato	etc d	cca	agga	ct at	tcat	ggcat	780
										•				י כ כ י י		90	Juday	700

RAW SEQUENCE LISTING

DATE: 03/28/2002 PATENT APPLICATION: US/09/903,188A TIME: 10:16:18

Input Set : N:\Crf3\Refhold\I903188.raw Output Set: N:\CRF3\03282002\1903188A.raw

146		tg	gaac	aaqq	aac	agat	tca	atoc	сада	ct t	ataa	2 + ~~	a ++	~~~	+		aattgcg	
147		gaa	agcg	gcag	qqa	qcac	tat	aaat	acaa	מכ כ	cato	aryy	a ii	caaa	Caat	gga	aattgcg tatctca	840
148		aga	aata	atta	caa	ttat	αt.a	atca	gage.	go c aa a	aata	aayy 2226	c aa	+~~~	aaay	acg	tgccacg	900
149		acc	gcaa	cage	aat	tata	gaa	σtaa	agga	ga t	tete	aaay aaat	a yy	cyaa coo+	ayıg	aaa	attccta	960
150		aad	gaca	cagt	qaca	acta	tac .	acca	acto	an n	ctac	ttat.	~ cc	2222	ayıy	aac	gccaatg	
151		agg	gaata	acat	aati	tato	aac .	tato	aaga	ca a	anan	oata	9 00	aaat	90LL	gtt	gccaatg gtggaag	1080
152		gat	tccti	taac	cqaa	aaaa	taa i	agaga	atea	to t	taat	2272	c ca	yycı tass	ccia	cta	gtggaag gatcaaa	1140
153		ago	cttc	gacq	tcc	cagg	aaa a	agcaa	aaga	20 0	cata	aaya	a ay	ttaa	gege	Lgg	gatcaaa aacagca	1200
154		att	ccad	aca	agco	rcata	agt.	tagad	ctaac	ים מי	aaaa	atat:	- aa	~~~	caac	aaaa	acagca gactttg	1260
155		aaa	actaa	gat	ttac	catte	rtt (	ggaad	rage	an a	aaag	9 - 9 -	t co	yaaa ooto	ctet	atg	tatatt	1320
156		cta	ittqt	tta	ctac	caaga	aaa a	et aat	tta	14 40 11 +0	zauy:	144L	L 90	tacta	cage	acgi	ttatatt	1380
157		tta	itaac	tat	attt	gcad	eat o	itte	cago	ים בי	14 to	y cay :	. ++.		LLCC	LLCI	gacagag	1440
158		cag	rtgac	etga	atqt	ctca	age o	ctaaa	gaaa	o to	raati		1 LL	taat	LLCC	agto	acagag	1500
159		aaq	rtatt	tga	tact	atgtctcagc ctaaagaagc tcaattcatt tctgatcaac taatggtgactagag tacttgggga aagtgaacta attgcaatgg taaatcagag aaaagttgac									ggtgac	1560		
160		caa	itatt	act	tttc	ctat	aσ a	ataaa	agugaacta attgcaatgg taaatcagag aaaagt tgaacaagt gagagatcac atttaaatga tgatca							igttgac	1620	
161		cca	ttta	ata	cttt	cago	eag t	ttta	artta	nor at	rgage	tata	all	taa	atga	tgat	ctaaat	1680
162		att	ttat	cat	aaat	caac	raor o	rtaat	ttac	ta at	-yacc		1 996	Lyce	icct	aaat	ctaaat	1740
163		cta	cttt	atc	aatt	ctat	:t:t:	aaaa	atto	ra at	-y	-99.0	- aci	-gtt	jgga	aggt	aaatgc aaaaaa	1800
164		aaa	aaaa	aaa	aaaa	a.		-uuuu	uccy	,	-aaa i	.aaa (	- all	-aagı	CCE	aaat	aaaaaa	1860
166	<210>	SEQ	ID N	io: 5														1875
167	<211>	LENG	TH:	896														
	<212>																	
		<pre>&lt;213&gt; ORGANISM: Xenopus</pre>																
170	<400>	SEQU	ENCE	: 5	_													
171					Leu	Phe	Ara	Ala	Tle	Pro	Mot	T.Au	LOU	T 01	C1-		Met	
172		1				5	9				10	. Deu	пец	. nec	г сту		мет	
173		Val	Leu	Gln	Thr	Asp	Cvs	Glu	Tle	Δla	Gln	Ттт	ттт	т1.		15	Glu	
174					20		-1-			25	0111	. <b>.</b>	1 Y T	TTE	30	GIU	GIU	
175		Glu	Pro	Pro	Gly	Thr	Val	Ile	Ala	Val	T.eu	Ser	G1n	ui a	30 Com	т1.	Phe	
176				35	•				40		шси	Der	GIII	45	ser	тте	Pne	
177		Asn	Thr	Thr	Asp	Ile	Pro	Ala	Thr	Asn	Phe	Δrα	Τ.Δ11	Mo+	Tva	Cln	Phe	
178			50		•			55		11011	1110	пту	60	Met	ьуѕ	GIII	Pne	
179		Asn	Asn	Ser	Leu	Ile	Glv	Val	Ara	Glu	Ser	Δen	G137	Gln	T 011	Com	T1 -	
180		65					70		9	<b>01</b>	001	75	GLY	GIII	пеа	ser		
181		Met	Glu	Arg	Ile	Asp	Arq	Glu	Gln	Ile	Cvs	Ara	Gln	Sar	T 011	Hic	80	
182				_		85	,				90	**** 9	OIII	261	пец	95	Cys	
183		Asn	Leu	Ala	Leu	Asp	Val	Val	Ser	Phe		Lvs	Glv	Hic	Dho	7.7 7.7	Tou	
184					100	_				105		_,5	011	1113	110	цуѕ	neu	
185		Leu	Asn	Val	Lys	Val	Glu	Val	Ara	Asp	Tle	Asn	Agn	Иie	Sor	Dro	TT i o	
186				TTO					120					125				
187		Phe	Pro	Ser	Glu	Ile	Met	His	Val	Glu	Va 1	Ser	Glu	Ser	Sar	Sor	Wa I	
188			100					135					140					
189		Gly	Thr	Arg	Ile	Pro	Leu	Glu	Ile	Ala	Ile	Asp	Glu	Asp	Va 1	G1 17	Sor	
190		T#2					T20					155					160	
191		Asn	Ser	Ile	Gln	Asn	Phe	Gln	Ile	Ser	Asn	Asn	Ser	Hie	Pho	Ser	TIO	
192						TOO					170					175		
193		Asp	Val	Leu	Thr	Arg	Ala	Asp	Gly	Val	Lys	Tyr	Ala	Asp	Len	Val	Len	
194	•				TOO					185					100			
195		Met	Arg	Glu	Leu	Asp	Arg	Glu	Ile	Gln	Pro	Thr	Tvr	Tle	Met	Glu	T.ou	
							-						- 4 -			- $u$	Leu	

RAW SEQUENCE LISTING

DATE: 03/28/2002 PATENT APPLICATION: US/09/903,188A TIME: 10:16:18

Input Set : N:\Crf3\Refhold\I903188.raw Output Set: N:\CRF3\03282002\1903188A.raw

196			195	;				20	n					_		
197	Lei	ו או			\ C1+	, (1,	. 17.5.1	200	) -	•	_		205	5		
198		210	)	. not	, GI	, GT7	215	. PIC	o sei	r Lei	ı sei			r Ala	a Vai	l Val
199	Asr			v Val	Τ.Δ1	λer			. 7			220	) 			
200	225	;		,,,,	. DCu	230	) } F116	: ASI	I AS	ASI			va.	L Phe	€ GI	ı Arg
201			Tle	Δla	Val			1757	C1.		235	) D	_		_	240
202				. 11±u	245	. ASE	, neo	va.	L GIL			Pro	) Let	ı GTZ		Leu
203	Leu	Leu	Glu	Len			ጥኮነ	· Acr	. 70-	250	, (1)		7	_	255	Glu
204				260		2114	. 1111	voř	265	, wat	GIU	і СТУ	val			7 Glu
205	Ile	Val	Tvr			Ser	ጥኮኮ	· T.A.:				. c1		270		Leu
206			275	1				280	, VI	, set	GII	GIU			GII	Leu
207	Phe	Lvs			Ser	Ara	Thr			· 17 = 1	шhх		285			Val
208		290				9	295	O+ <i>y</i>	·DCI	· vai	. 1111	300		. Сту	GIL	val
209	Asp	Phe	Glu	Thr	Lvs	Gln			· 6111	Dho	C111	7751	<b>C1</b> n	77-	<b>01</b>	Asp
210	305				-1-	310		-1-	Olu	· FIIC	315		GIII	Ald	GIN	
211	Leu	Gly	Pro	Asn	Pro			Ala	Thr	Cve	T.VC	Va 1	Пhъ	17-1	III a	320 Ile
212		_			325					330		Val	1111	Val	335	
213	Leu	Asp	Val	Asn	Asp	Asn	Thr	Pro	Ala			Tle	Thr	Dro	LOU	Thr
214				340	_				345				7 111	350		THI
215	Thr	Val	Asn	Ala	Gly	Val	Ala	Tyr	Ile	Pro	Glu	Thr	Ala	Thr	T.ve	Glu
216			300					360					365			
217	Asn	Phe	Ile	Ala	Leu	Ile	Ser	Thr	Thr	Asp	Arq	Ala	Ser	Glv	Ser	Asn
218		3/0					375					380				
219	Gly	Gln	Val	Arg	Cys	${ t Thr}$	Leu	Tyr	Gly	His	Glu	His	Phe	Lvs	Leu	Gln
220	385					390					395					400
221	Gln	Ala	Tyr	Glu	Asp	Ser	Tyr	Met	Ile	Val	Thr	Thr	Ser	Thr	Leu	Asp
222					405					410					415	-
223	Arg	Glu	Asn	Ile	Ala	Ala	Tyr	Ser	Leu	Thr	Val	Val	Ala	Glu	Asp	Leu
224				420					425					430		
225	GLY	Phe	Pro	Ser	Leu	Lys	Thr	Lys	Lys	Tyr	Tyr	Thr	Val	Lys	Val	Ser
226			433					440					445			
227	Asp	GLU	Asn	Asp	Asn	Ala	Pro	Val	Phe	Ser	Lys	${\tt Pro}$	${\tt Gln}$	Tyr	Glu	Ala
228 229 .		450					455					460				
230	ser	тте	Leu	GLu	Asn	Asn	Ala	Pro	Gly	Ser	${ t Tyr}$	Ile	Thr	Thr	Val	Ile
231	465	7 ~~	<b>3</b>	<b>a</b>		470	_				475					480
232	нта	Arg	ASP	ser	ASP	ser	Asp	GIn	Asn	Gly	Lys	Val	Asn	Tyr	Arg	Leu
233	Va l	λen	λla	T	485	14-4	<b>a</b> 1	<b>a</b> 1	_	490		_			495	
234	Val	nsp	Ата	500	vаı	Met.	СТА	GIN	ser	Leu	Thr	Thr	Phe		Ser	Leu
235	Asp	Ala	Δsn		G1 v	V = 1	Tou	7 ~~	505	**- 1		_	_	510		
236	1101		515	Der	GIY	Val	Leu	520	Ата	vaı	Arg	ser		Asp	${ t Tyr}$	Glu
237	Lvs	Leu		Gln	T.011	λen	Dho	22U	т1.	<b>a</b> 1		- 1	525			
238	-1-	530	2,5	0111	Deu	тэр	Phe 535	GIU	тте	GIU	Ата		Asp	Asn	Gly	Ile
239			Len	Ser	Thr		Val	C1 n	T 011	N ~ ~	T	540			_	
240	545			001	+111	550	val	GIII	пеп	ASII		Arg	тте	vaı	Asp	
241	Asn	Asp	Asn	Cvs			Tle	Thγ	Δen	Dro	555	T 0	<b>7</b> ~ ~	N	<b>a</b> 1	560
242		L		- <b>,                                   </b>	565		- T-C	- 111	usii	570	neu	ьеи	ASN	ASN		ser
243	Gly	Glu	Val			Pro	Ile	Ser	Ala	Pro	Gln	λen	Фттх∽	T 0	575	Dh.
244	_			580					585	0	O-11	A311		590	val	FIIG